Nemalux™

AR-GN
rev. A5

KEY FEATURES

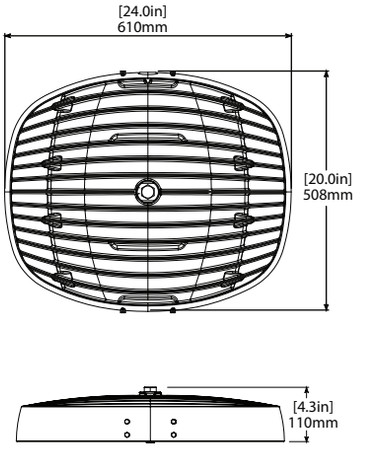
- Designed for a wide range of marine and industrial applications
- Multiple optical distribution patterns for superior lighting quality
- Approved for through-wiring of several units on a single circuit
- Optimized thermal management of electronics for longevity
- Built-in junction area for simplified termination
- 8 mounting options for installation flexibility
- Available in 90+ CRI

TECHNICAL SPECIFICATIONS / MAXIMUM RATINGS

HOUSING	Copper free aluminum and polycarbonate lens
MOUNTING	See pages 3 and 4 for MOUNTING OPTIONS
INPUT VOLTAGE	**AC:** 120-277 VAC | **HV:** 347-480 VAC (50/60Hz)
POWER (TYP)	See CHART on page 2
CURRENT (TYP)	See CHART on page 2
CONNECTIONS	2x 3/4" NPT
DIMMING	0-10V Dimmable, Class 1 wiring | See CHART on page 2
TEMPERATURE RANGE	**AR10, 15, 20, 25** AC Models: -40°C to +55°C **AR10, 15, 20, 25** HV Models: -40°C to +50°C **AR30** AC, HV Optical Models: -40°C to +45°C **AR30** AC Flood Model: -40°C to +40°C **AR30** HV Flood Model: -40°C to +45°C (Case ~30°C above ambient)
CERTIFICATIONS	Certified to UL 1598 & UL 1598A, UL 8750; CSA 22.2 No. 250.0, CSA 22.2 No. 250.13;
INGRESS PROTECTION	IP66/67 Suitable for wet locations. Marine outside type (salt water).
COLOUR TEMP RANGE	**50:** 5,000K | **Special Order:** 2,700-6,500K
CRI VALUE (MIN)	**50:** 70 | **Special Order:** 90+
TOTAL LUMENS	See CHART on page 2
LUMEN MAINTENANCE	LM-80 > 100,000 hrs (Based on CREE long term testing)
WEIGHT	16.4 kg | 36 lbs

** The ambient temperature during lifetime, lumen and chromaticity determination is 25°C ± 1°C.*

DIMENSIONS



WARRANTY

Five (5) year limited warranty to the original purchaser. The warranty covers defects in materials and workmanship under normal use and service.

For additional information see:
https://nemalux.com/legal

ELECTRICAL RATINGS

AC MODELS
(5000K CCT, minimum 70CRI)
120-277 VAC Input Range
50/60 Hz Frequency

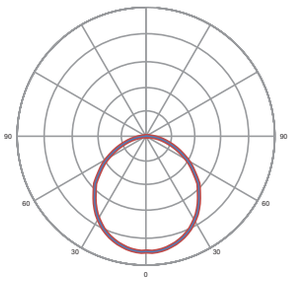
MODEL	RATED WATTAGE [Watts]	TYPICAL POWER - FLOOD MODELS [WATTS]		TYPICAL POWER - OPTIC MODELS [WATTS]	
		@120VAC	@277VAC	@120VAC	@277VAC
AR10	107	88.8	91.8	96.9	99.2
AR15	145	119.5	121.6	130.0	131.7
AR20	190	156.3	157.0	170.0	170.6
AR25	247	209.7	208.1	224.9	222.7
AR30	312	277.7	274.4	297.0	292.9

HV MODELS
(5000K CCT, minimum 70CRI)
347-480 VAC Input Range
50/60 Hz Frequency

MODEL	RATED WATTAGE [Watts]	TYPICAL POWER - FLOOD MODELS [WATTS]		TYPICAL POWER - OPTIC MODELS [WATTS]	
		@ 347VAC	@ 480VAC	@ 347VAC	@ 480VAC
AR10	129	113.0	118.3	121.9	127.0
AR15	145	135.6	140.6	145.7	150.6
AR20	187	171.5	193.8	180.5	183.3
AR25	248	224.6	228.4	238.3	241.9
AR30	310	287.3	289.5	297.6	297.4

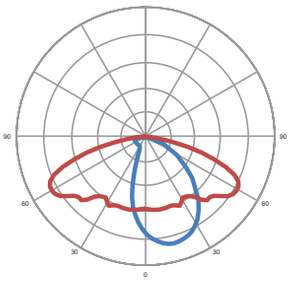
OPTIC OPTIONS

Vertical Plane (RED) | Lateral Cone (BLUE)



WC - Wide Beam (No Optics)

MODEL	LUMENS	LUMENS/WATT
AR10	12,270	140
AR15	16,490	140
AR20	20,730	134
AR25	26,610	129
AR30	33,190	121



T2 - IESNA Type 2

MODEL	LUMENS	LUMENS/WATT
AR10	12,370	132
AR15	16,340	130
AR20	20,560	125
AR25	26,090	117
AR30	31,670	109

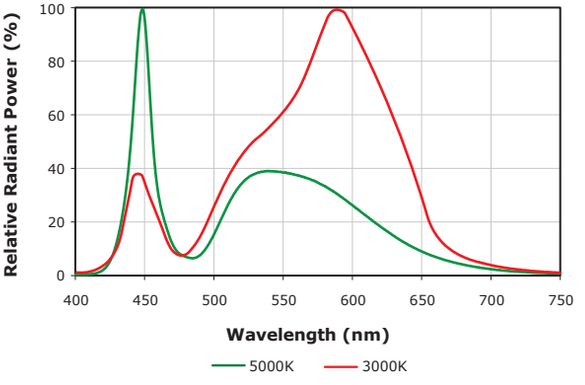
NOMINAL POWER CURRENT TABLE

General Location (ARXX-XXX-XX-XX-GN-XX)

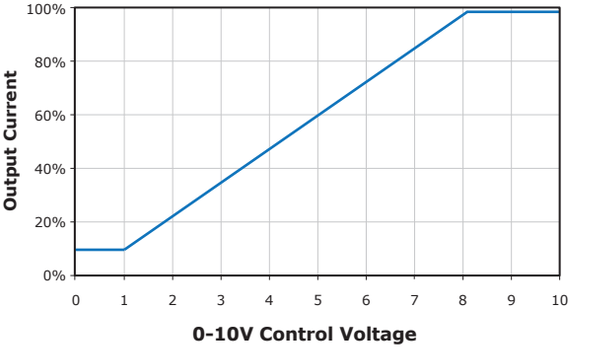
LUMINANCE	INPUT VOLTAGE	RATED WATTAGE [Watts]	RATED VOLTAGE [Volts]	FREQUENCY [Hz]	CURRENT [A]
AR10	AC	107	120-277	50/60	1.11A/0.48A
	HV	129	347-480	50/60	0.43A/0.31A
AR15	AC	145	120-277	50/60	1.42A/0.61A
	HV	145	347-480	50/60	0.47A/0.34A
AR20	AC	190	120-277	50/60	1.74A/0.75A
	HV	187	347-480	50/60	0.59A/0.42A
AR25	AC	247	120-277	50/60	2.18A/0.95A
	HV	245	347-480	50/60	0.74A/0.53A
AR30	AC	312	120-277	50/60	2.82A/1.22A
	HV	310	347-480	50/60	0.96A/0.70A

Note: 13 alternate optical profiles available upon request.
Contact Nemalux sales representative for further details. Minimum order quantities, additional costs and lead times may apply.

PHOTOMETRICS



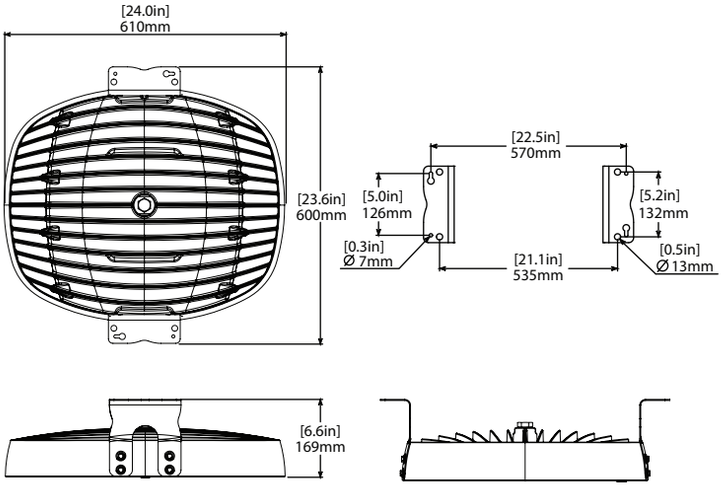
DIMMING



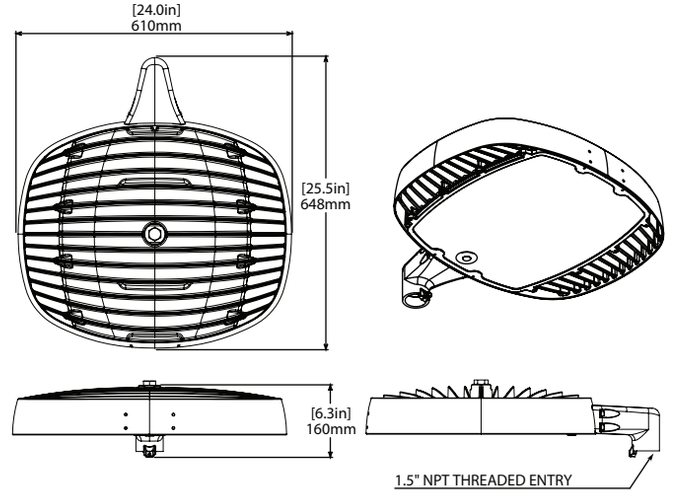
- *Driver will source a maximum of 200uA for control needs*
- *Controller must sink current from the 0-10V control leads*

MOUNTING OPTIONS (Ordered Separately)

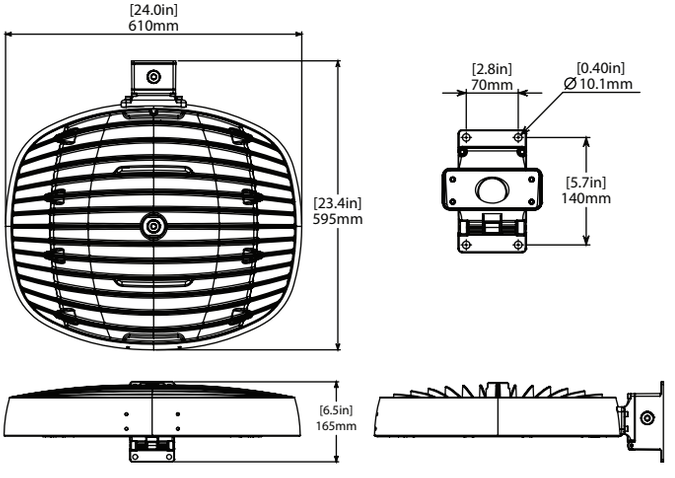
SURFACE/SUSPENDED MOUNT (UM-SM): 16.8 kg | 37 lbs



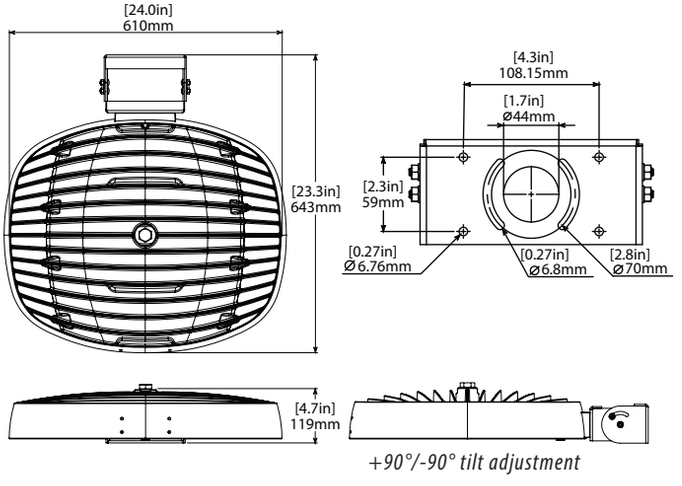
POLE MOUNT (UM-PM-GY): 17.3 kg | 38 lbs | EPA: 0.07 m^2 / 0.72 ft^2



WALL MOUNT 2 (UM-WM2-GY): 17.6 kg | 38.5 lbs

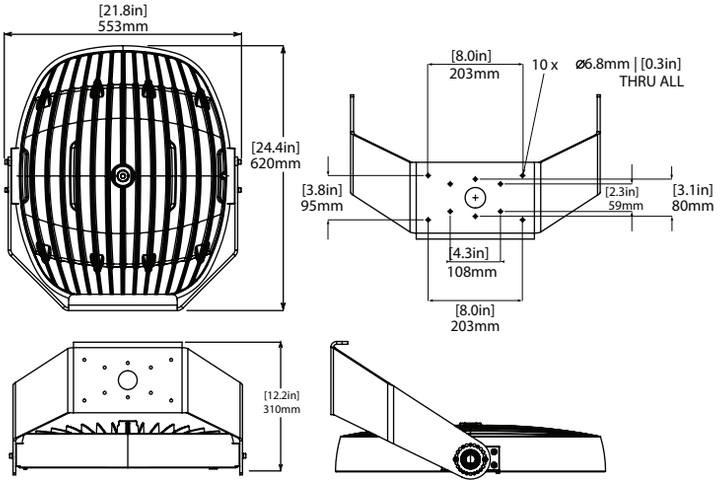


YOKE MOUNT (UM-YM-GY): 18.0 kg | 39.6 lbs | EPA: 0.28 m^2 / 3.06 ft^2



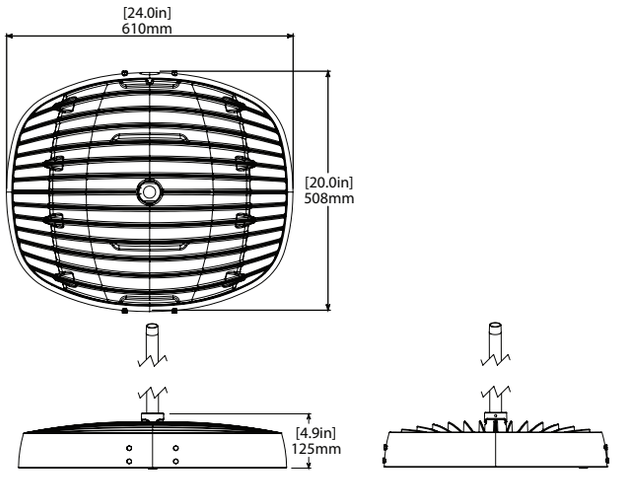
+90°/-90° tilt adjustment

HIGH VIBRATION YOKE MOUNT (AR-YK): 23.8 kg | 52.5 lbs | EPA: 0.37 m^2 / 3.97 ft^2

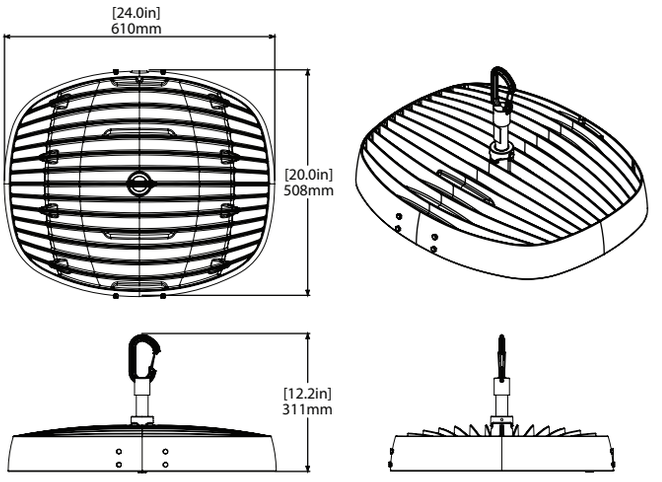


MOUNTING OPTIONS (Ordered Separately)

COUNDUIT MOUNT ROTATIONAL LOCK (UM-CC-GY): 16.4 kg | 36 lbs

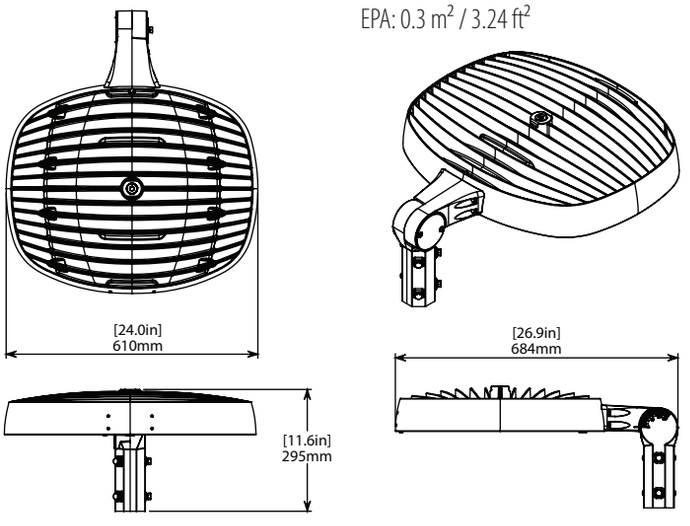


HOOK PENDANT MOUNT (UM-HK-GY): 16.8 kg | 36.9 lbs



SLIP FITTER YOKE MOUNT (UM-SFY-GY): 18.35 kg | 40.3 lbs

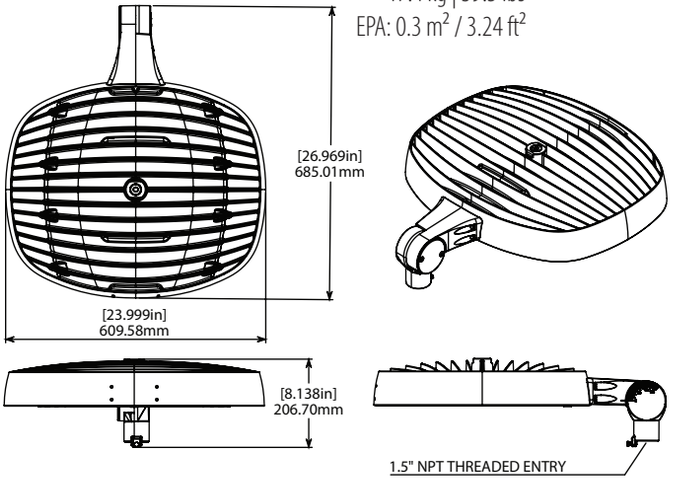
EPA: 0.3 m^2 / 3.24 ft^2



1.5" THREADED ADJUSTABLE POLE MOUNT (UM-SFY-1.5-GY):

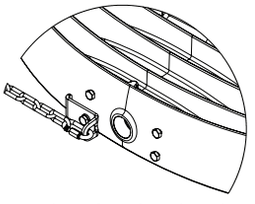
17.4 kg | 39.5 lbs

EPA: 0.3 m^2 / 3.24 ft^2



Stepped to accept either 1.5" Trade size (1-13/16" [46mm] to 2" [50mm] OD) & 2" Trade size (2-1/8" [53mm] to 2-7/16" [63mm])

SECONDARY SAFETY KIT (UM-SK-##)



##represents the safety chain length in feet (i.e. 05=5', 10=10'). Secondary Safety Kit contains bracket, stainless steel chain (1/8 trade size), and two stainless steel oval threaded connecting links.

ORDERING INFORMATION

PROJECT NAME		TYPE	
PROJECT LOCATION			
COMMENT		DATE	
PREPARED BY			

MODEL SELECTOR

Sample Number: AR25-50-WC-GY-GN-AC

MODEL	CCT	OPTIC	FINISH	LOCATION	POWER
-	-	-	-	GN -	
AR10[5] **AR15**[5] **AR20**[5] **AR25**[5] **AR30**[5]	**30** - 3,000K **40** - 4,000K **50** - 5,000K Custom CCT options are available. Please contact for details.[1]	**WC** - Wide Beam (Typ. Type 5) Special Order: **T1** - IESNA Type 1[1] **T2** - IESNA Type 2[1] **T3** - IESNA Type 3[1] **T4** - IESNA Type 4[1]	**GY** - Grey Custom finish options are available. Please contact for details.[1]	**GN** - General Location	**AC** - 120-277 VAC **HV** - 347-480 VAC

ACCESSORIES (Order Separately)

Sample Number: UM-WM2-GY

ACCESSORY	
UM-SM	- Surface Mount[2]
UM-PM-GY	- Pole Mount; Grey Finish
UM-WM2-GY	- Wall Mount 2; Grey Finish
UM-YM	- Yoke Mount[2]
AR-YK	- AR Series; High Vibration Yoke Mount[2]
UM-CC-GY	- Conduit Mount Rotational Lock; Grey Finish
UM-HK-GY	- Hook Pendant Mount; Grey Finish
UM-SFY-GY	- Slip Fitter Yoke Mount; Grey Finish;
UM-SFY-1.5-GY	- 1.5" Threaded Adjustable Pole Mount; Grey Finish
UM-SK-##	- Secondary Safety Kit; Length in Feet[2,4]
AR-SP-AC	- AR Series; Surge Suppressor[6]
AR-SP-HV	- AR Series; Surge Suppressor[6]

NOTES:

1. *Minimum order quantities, additional costs and lead times may apply.*
2. *Only available in stainless steel finish.*
3. *IDA Fixture Seal of Approval only applies to fixtures with a CCT of 3000K or less, and have fixed mounts aiming the fixture perpendicular to the ground.*
4. *## represents the safety chain length in feet (i.e. 05=5', 10=10'). Secondary safety kit contains bracket, stainless steel chain (1/8 trade size), and two stainless steel oval threaded connecting links.*
5. *See DLC listed models chart.*
6. *See surge suppressor options.*

DLC listed models chart:

DesignLights Consortium (DLC) v5.1 Qualified LED Luminaire Listings			
Model No.	*Category*	*General Application*	*Classification*
AR10-50-WC-xx-xx-AC	*Outdoor Luminaires*	*High Output*	*DLC Premium*
	Indoor Luminaires	*High-Bay*	*DLC Standard*
AR15-50-WC-xx-xx-[AC,HV]	*Outdoor Luminaires*	*High Output*	*DLC Premium*
	Indoor Luminaires	*High-Bay*	*DLC Standard*
AR20-50-WC-xx-xx-[AC,HV]	*Outdoor Luminaires*	*High Output*	*DLC Premium*
	Indoor Luminaires	*High-Bay*	*DLC Standard*
AR25-50-WC-xx-xx-[AC,HV]	*Outdoor Luminaires*	*High Output*	*DLC Premium*
	Indoor Luminaires	*High-Bay*	*DLC Standard*
AR30-50-WC-xx-xx-[AC,HV]	*Outdoor Luminaires*	*Very High Output*	*DLC Premium*
	Indoor Luminaires	*High-Bay*	*DLC Standard*

Surge suppressor options:

AR-SP-AC – 277V FOR USE WITH -AC AR MODELS

-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µS & 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave

-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µS & 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave

AR-SP-HV – 480V FOR USE WITH -HV AR MODELS

-Protects against surges and transients per ANSI C62.41-2002 category C high (10KV, 1.2/50µS & 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave

-Protects against surges and transients per new ANSI C82.77-5 2015 category C high (20KV, 1.2/50µS & 10KA, 8/20µS) standard Combo waves and (6KV, 100KHz) Ring wave